

polyoxyethylenenonylphenyl ether, polyoxyethylene fatty acid ester or sucrose fatty acid ester.

33. (New) The kit of Claim 31, wherein the cyclic saccharide cycloamylose has a polymerization degree of from 25 to 50

34. (New) The kit of Claim 31, wherein the cyclic saccharide cycloamylose has a polymerization degree of from 40 to 150.

35. (New) A kit for refolding denatured protein, comprising (a) a cyclic saccharide cycloamylose having a polymerization degree of from 25 to 150 and (b) an ionic detergent.

B2 Cont 36. (New) The kit of Claim 35, wherein the ionic detergent is ~~cetyltrimethylammonium bromide, sodium dodecyl sulfate, sodium deoxycholate, 3-[(3-colamidopropyl)dimethylammonio]-1-propanesulfonic acid, hexadecyltrimethylammonium bromide or myristylsulfobetaine.~~

37. (New) The kit of Claim 35, wherein the cyclic saccharide cycloamylose has a polymerization degree of from 25 to 50.

38. (New) The kit of Claim 35, wherein the cyclic saccharide cycloamylose has a polymerization degree of from 40 to 150.

39. (New) A method of refolding a denatured protein, comprising:  
contacting a polyoxyethylenic detergent with a denatured protein, followed by  
contacting the protein with a cyclic saccharide cycloamylose having a degree of  
polymerization of 25 to 150, to produce a folded protein.

733 40. (New) The method of Claim 39, wherein the polyoxyethylenic detergent is a  
polyoxyethylenesorbitan ester, polyoxyethylenedodecyl ether,  
polyoxyethyleneheptamethylhexyl ether, polyoxyethyleneisooctylphenyl ether,

~~polyoxyethylenenonylphenyl ether, polyoxyethylene fatty acid ester or sucrose fatty acid ester.~~

41. (New) The method of Claim 39, wherein the cyclic saccharide cycloamylose has a polymerization degree of from 25 to 50

42. (New) The method of Claim 39, wherein the cyclic saccharide cycloamylose has a polymerization degree of from 40 to 150.

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43. (New) The method of Claim 39, wherein the folded protein has an  $\alpha$ -helical structure.

44. (New) The method of Claim 39, wherein the folded protein has an  $\beta$ -sheet structure.

45. (New) The method of Claim 39, wherein the refolded protein has an intramolecular S-S bond.

46. (New) A method of refolding a denatured protein, comprising:  
contacting an ionic detergent with a denatured protein, followed by  
contacting the protein with a cyclic saccharide cycloamylose having a degree of  
polymerization of 25 to 150, to produce a folded protein.

47. (New) The method of Claim 46, wherein the ionic detergent is  
cetyltrimethylammonium bromide, sodium dodecyl sulfate, sodium deoxycholate, 3-[(3-  
colamidopropyl)dimethylammonio]-1-propanesulfonic acid, hexadecyltrimethylammonium  
bromide or myristylsulfobetaine.

48. (New) The method of Claim 46, wherein the cyclic saccharide cycloamylose has a polymerization degree of from 25 to 50.

49. (New) The method of Claim 46, wherein the cyclic saccharide cycloamylose has a polymerization degree of from 40 to 150.

50. (New) The method of Claim 46, wherein the folded protein has an  $\alpha$ -helical structure.

51. (New) The method of Claim 46, wherein the folded protein has an  $\beta$ -sheet structure.

52. (New) The method of Claim 46, wherein the refolded protein has an intramolecular S-S bond.--

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#### SUPPORT FOR THE AMENDMENTS

Newly added Claims 31-52 are supported by the specification at pages 4-25 and by original Claims 1-8. No new matter is believed to have been added to this application by these amendments.

#### REMARKS

Claims 31-52 are active in this application, upon entry of the amendment submitted above. Favorable reconsideration is respectfully requested.

The present invention relates to an artificial chaperon kit comprising (a) a cyclic saccharide cycloamylose having a degree of polymerization of 25 to 150 and (b) a polyoxyethylenic detergent. See Claim 31.

The present invention also relates to an artificial chaperon kit comprising (a) a cyclic saccharide cycloamylose having a polymerization degree of from 25 to 150 and an ionic detergent. See Claim 35.

The present invention also relates to a method of refolding a denatured protein, comprising:

contacting a polyoxyethylenic detergent with a denatured protein, followed by